

Engine & Cooling

Fuel

Ignition

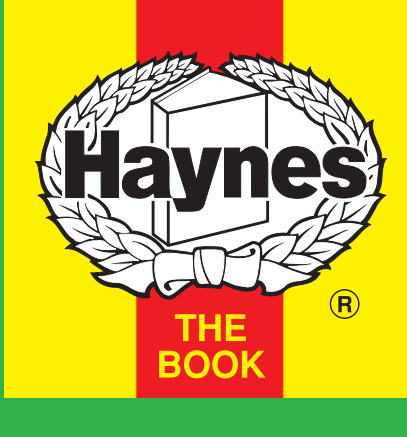
Electrical

Running gear

Torque settings

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Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Y10 1108ie & 4x4 CAT

1990 to 1994

Type		156 C.046 SOHC 37kW US83
Capacity (cm ³) / number of cylinders		1108 / 4
Compression ratio / pressure	bar	9.6±0.2 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel system

Y10 1108ie & 4x4 CAT

1990 to 1994

Idle speed - manual [auto]	rpm	800 to 850 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Mono-Jetronic SPI ¹
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	1.0±0.2. MonoMotronic: 1.1±0.1
Octane rating	RON	95[U]

Ignition system

Y10 1108ie & 4x4 CAT

1990 to 1994

Type		Electronic ¹
Ignition coil		Marelli BAE 506D ²
Primary resistance	ohms	0.67 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	[0 BTDC]
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1000±200
	° Crankshaft @ rpm	15±2 @ 1900±200
	° Crankshaft @ rpm	28±2 @ 5000±200
Vacuum range check	mbar	147 to 267
Maximum vacuum advance	° Crankshaft	12 to 14
Spark plugs		Champion
Type		RC9YCC
Electrode gap	mm	0.85 to 0.95

Electrical system

Y10 1108ie & 4x4 CAT

1990 to 1994

Battery	V / CC / RC	12 / 250 / 50Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 65 / 3000
Starter motor current / voltage - cranking	A / V	180 to 190 / 9.1 to 10.4
- locked	A / V	324 to 420 / 7.1 to 8.5

Running gear

Y10 1108ie & 4x4 CAT

1990 to 1994

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	135x13: 155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0 ³
Camber		+30'±30'. 4x4: +1°20'±30'
Castor		+1°45'±30'. 4x4: +2°15'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0, not 4x4
Camber		0±30' N/A

Torque wrench settings

Y10 1108ie & 4x4 CAT

1990 to 1994

Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	40 + 90°
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	44
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

Y10 1108ie & 4x4 CAT

1990 to 1994

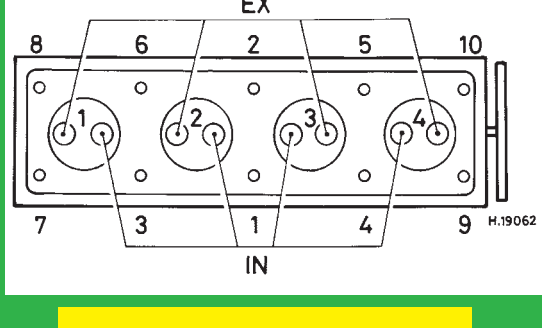
Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	4x4 rear: 1.2
Cooling system	litres	4.6
Fuel tank	litres	43. 4x4: 35

Notes and Illustrations

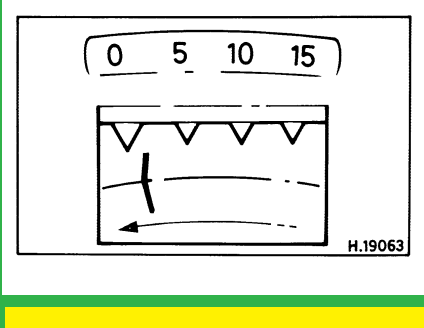
¹92 ►: Mono-Motronic with Motronic Static ignition

²Motronic Static: Dual spark type

³4x4: 0±1.0



1108 cm³



1108 cm³